

## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the present application.

### LISTING OF CLAIMS:

1. (Currently Amended) An initial solids coating mixture, comprising:  
an aqueous or water containing organic adhesive agent; and  
electrically conductive additive particles including ~~at least one of boron carbide, silicon carbide, a conductive oxide, silicide, carbide of transitional elements, boride of transitional elements and lanthanides and zinc,~~  
wherein an electrical conductivity of the ~~additive particles~~ boron carbide is in the metallic range, and  
wherein the additive particles are configured to have a continuous physical connection in at least one spatial direction,  
wherein the proportion of adhesive agent to additive particles is in a range of 1:3, and  
wherein the aqueous or water containing organic adhesive agent includes hexamethylenetetramine.

Claim 2. (Canceled).

3. (Currently Amended) The initial solids coating mixture according to claim 10 ~~[[1]]~~, wherein the carbide of transitional elements, boride of transitional elements and lanthanides form one of mixed oxides, silicides, carbides and borides.

4. (Previously Presented) The initial solids coating mixture according to claim 1, wherein the electrical conductivity is in a range of  $\sigma > 10^2 \text{ l}/\Omega \text{ cm}$  to  $\sigma < 10^7 \text{ l}/\Omega \text{ cm}$ .

5. (Currently Amended) The initial solids coating mixture according to claim 10 ~~[[1]]~~, wherein the transitional elements include at least one of iron, manganese, zirconium, titanium, molybdenum, vanadium and tungsten.

6. (Currently Amended) The initial solids coating mixture according to claim 24 ~~[[1]]~~, wherein the carbide of transitional elements, boride of transitional elements and lanthanides show a mixture of various oxidation states.

7. (Currently Amended) The initial solids coating mixture according to claim 10 ~~[[1]]~~, wherein the lanthanide includes cerium.

Claim 8. (Canceled).

9. (Currently Amended) The initial solids coating mixture according to claim 24 ~~[[1]]~~, further comprising a non-noble metal in an elemental state.

10. (Currently Amended) An ~~[[The]]~~ initial solids coating mixture ~~according to claim 9, comprising:~~

an aqueous or water containing organic adhesive agent;  
electrically conductive additive particles including at least one of boron carbide, silicon carbide, a conductive oxide, silicide, carbide of transitional elements, boride of transitional elements and lanthanides; and  
a non-noble metal in an elemental state;  
wherein an electrical conductivity of the additive particles is in the metallic range,  
wherein the additive particles are configured to have a continuous physical connection in at least one spatial direction, and  
wherein the non-noble metal includes at least one of zinc and aluminum.

Claims 11 to 23. (Canceled).

24. (Currently Amended) An ~~[[The]]~~ initial solids coating mixture ~~according to claim 4, comprising:~~

an aqueous or water containing organic adhesive agent; and  
electrically conductive additive particles including at least one of boron carbide, silicon carbide, a conductive oxide, silicide, carbide of transitional elements, boride of transitional elements and lanthanides,  
wherein an electrical conductivity of the additive particles is in the metallic range,  
wherein the additive particles are configured to have a continuous physical connection in at least one spatial direction, and  
wherein the proportion of adhesive agent to additive particles is in a range of 1:2.

25. (Currently Amended) The initial solids coating mixture according to claim 10 ~~[[1]]~~, wherein the proportion of adhesive agent to additive particles is in a range of 1:3.

26. (Currently Amended) An ~~[[The]]~~ initial solids coating mixture ~~according to claim~~ 1, comprising:

an aqueous or water containing organic adhesive agent; and  
electrically conductive additive particles including at least one of boron carbide,  
silicon carbide, a conductive oxide, silicide, carbide of transitional elements, boride of  
transitional elements and lanthanides,  
wherein an electrical conductivity of the additive particles is in the metallic range,  
wherein the additive particles are configured to have a continuous physical connection  
in at least one spatial direction, and  
wherein the aqueous or water containing organic adhesive agent further comprises  
hexamethylenetetramine.